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APPLICATION NO	D.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,605		07/23/2003	Herbert Schrefl	P23976	7592
7055	7590	03/18/2005	•	EXAMINER	
		& BERNSTEIN, P	PATEL, VISHAL A		
RESTON.		CLARKE PLACE 20191		ART UNIT PAPER NUMBER	
,				3676	
				DATE MAILED: 03/18/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
<i></i> ✓	10/624,605	SCHREFL ET AL.	,			
Office Action Summary						
	Examiner	Art Unit				
The MAILING DATE of this communication app	Vishal Patel	3676				
Period for Reply	cars on the cover sheet with th	e correspondence address –				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS from cause the application to become ABANDO	e timely filed days will be considered timely. om the mailing date of this communicati NED (35 U.S.C. § 133).	ion. ~			
Status						
1) Responsive to communication(s) filed on 25 Ja	nuary 2005.					
2a) This action is FINAL . 2b) ⊠ This	_					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-18 and 20-54</u> is/are pending in the a	application					
4a) Of the above claim(s) <u>8,9,25,27,41-44 and s</u>	• •	onsideration				
5) Claim(s) is/are allowed.						
6) Claim(s) 1-7,10-18,20-24,26,28-30,32-36 and	45-51 is/are rejected.					
7) Claim(s) 31 and 37-40 is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
· · · <u>-</u>	_					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce		o Eveminer				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correcti		` '	(d)			
11) The oath or declaration is objected to by the Ex		· ·	(0).			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119	(a)-(d) or (f).				
1.☐ Certified copies of the priority documents	s have been received					
Certified copies of the priority documents Certified copies of the priority documents		ation No				
3. Copies of the certified copies of the prior						
application from the International Bureau		iros ir uno riadonal olago				
* See the attached detailed Office action for a list	` '''	ved.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summa Paper No(s)/Mail					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informa	l Patent Application (PTO-152)				
Paper No(s)/Mail Date S. Patent and Trademark Office	6)					

Application/Control Number: 10/624,605

Art Unit: 3676

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 23 recites the limitation "said groove" in line 9. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-7, 13-18, 20-22, 26, 28-29, 30, 33-36 and 45-46 are rejected under 35U.S.C. 102(b) as being anticipated by Brendel (US. 5,141,238).

Brendel discloses a sealing device (device formed by 10', 1 and 8-9) for sealing at least one zone of underpressure or overpressure adjoining a moving surface (intended use, moving surface of roll 2). The sealing device comprising at least one sealing element, positionable opposite the moving surface to form a front and a rear (front that contacts the roll and the rear contacts 9), with respect to a surface running direction, comprising a sealing section located at the front and a ventilation section located at the rear. The sealing section being structured to sealingly interact with the moving surface. The ventilation section being structured and arranged to form a gap with the moving surface that widens in the surface running direction (gap widens in a surface running direction 6). The sealing element is pivotally mounted at an end of the

Art Unit: 3676

ventilation section to pivot relative to the moving surface to position the at least one sealing element into an operating position (operational condition, not given patentable weight but Brendel is capable of pivoting relative to the moving surface). The sealing section adjoins the ventilation section. The ventilation section is structured to continuously decrease in cross section away from the sealing section (this is the case as seen in figures).

The moving surface is arranged in a paper making machine (intended use). The sealing gap has a continuously increasing depth in the surface running direction. The sealing section and the ventilation section are composed of a same material. The sealing section and the ventilation section are formed as a single piece. In said operation position (intended use) the sealing section is in contact with the moving surface and the gap is formed between the ventilation section and the moving surface (intended use, but this is the case in Brendel). The sealing is pivotable about an axis extending transversely to the running surface (fig. 2). The sealing element comprises a sealing strip (10') and the sealing strip extends transversely to the running direction. The sealing is pivotally mounted in a region of the end located at the rear (figure 2).

Regarding claim 15: The rear end (4') that contacts 1. The ventilation section is formed by portion that extends below 23.

Regarding claims 21-22: Brendel discloses a sealing device (device formed by 10', 1, 8 and 9) for sealing at least one zone of underpressure or overpressure adjoining a moved surface (intended use). The sealing device comprising at least one sealing element, positionable opposite the moving surface (intended use) to from a front (front in contact with 2) and a rear (rear in contact with a rocker bearing 1), with respect to a surface running direction (surface direction), comprising a sealing section located at the front and a ventilation section located at the rear. The

Art Unit: 3676

at least one sealing element being pivotablly (invented use) mounted to pivot relative to the moving surface to position the at least one sealing element into an operating position (intended use). In the operating position, the sealing section is in sealing contact with the moving section and a gap is formed between the ventilation section and the moving surface (intended use). The sealing element is pivotally mounted in a region of an end face located at the rear (rear end face of the rear that is contacting 1). The sealing device comprising a rocker bearing (rocker bearing formed by the end face and the member 1) arrangement pivotablly mount the sealing element (intended use).

Regarding claims 30, 32 and 34-36: The sealing device comprising a pressure device coupled to the sealing element (pressure applied by a pressure device 9). The sealing element is loadable into the operating position by the pressure device (intended use). The sealing element is permanently loadable into the operating position by the pressure device during operation (intended use). The sealing element chargeable via the pressure device in a region of the sealing section (intended use). The sealing element positionally adjusted via the pressure device to compensate for wear of the sealing element (intended use). The pressure device is arranged at a side of the sealing element remote from the moving surface (the pressure device 9 is remote from the moving surface).

Regarding claim 33: The sealing element is held in the operating position by friction clamping (friction clamping formed by 9).

Regarding claim 47: The sealing device comprising a side sealing (side sealing of the roll 2) at least one pressure zone of underpressure or overpressure adjoining a rotating jacket of one of a suction roll, a blow roll and a moving blade (roll 2).

Regarding claim 48-50: The sealing device structured for sealing at least one pressure zone adjoining a rotation jacket of one of a suction roll and blow roll (intended use) and the sealing element comprises a sealing strip (10') extending at least substantially over an entire length of the roll (2).

Regarding claim 49: The sealing device structured and arranged between one of a suction box and a blow box (formed by 1) and a rotating jacket of one of a suction roll, blow roll and moving band (roll 2).

5. Claims 23-24 and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Wicks (US. 4,783,085).

Wicks discloses a sealing device (device formed by 46, 28 and 26) for sealing at least one zone of underpressure or overpressure adjoining a moved surface (intended use). The sealing device comprising at least one sealing element, positionable opposite the moving surface (intended use) to from a front and a rear, with respect to a surface running direction (surface direction), comprising a sealing section located at the front and a ventilation section located at the rear (sealing section near 24 and ventilation section at an opposite end of 24, near 44). The at least one sealing element being pivotablly (invented use) mounted to pivot relative to the moving surface to position the at least one sealing element into an operating position (intended use). In the operating position, the sealing section is in sealing contact with the moving section and a gap is formed between the ventilation section and the moving surface (intended use). The sealing element is pivotally mounted in a region of an end face located at the rear (the pin part 36 at the end of the rear and the two grooves above the pin part). The sealing device comprising a rocker bearing (bearing between the pin, groove, the member 28 and member 46) arrangement

Page 6

Art Unit: 3676

pivotablly mount the sealing element (intended use). The sealing device comprising a pivot bearing arrangement to pivotablly mount the sealing element and the pivot bearing comprising a fixed bearing element arranged to engage the groove (fixed element 24 engages grooves in the sealing element 26). In the operating position the sealing element is in sealing contact with the moving surface and a gap is formed between the ventilation section (contact at 24 and portion above 36) and the moving surface (intended use). The groove is arranged at a rear end face located at the rear (grooves above 36). The sealing device further comprising a fixed guide surface (surface 44) arranged in a region of a front end face of the sealing element and the fixed guide surface being structured and arranged to permit the pivoting movement of the sealing element to prevent the sealing element from moving away from the fixed bearing element thereby maintaining the pivot bearing (this is the case since 44 and 46 are used to prevent movement of the member 26 except pivotal movement). The guide surface is planar (the guide surface is formed in a planar form).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brendel in view of Kawamura et al (US. 4,295,654).

Brendel discloses the invention substantially as claimed above but fails to disclose the sealing device to be formed of at least one of rubber graphite, polyethylene (polyethylene comprising

Art Unit: 3676

thermoplastic UHMW) and thermosetting plastic. Kawamura teaches to have a seal be made of a polyethylene having thermoplastic UHMW (column 3, lines 43-58). It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the sealing device of Brendel to be made from polyethylene having thermoplastic UHMW as taught by Kawamura, to provide a wear-resistant or abrasion-resistant sealing device (column 3, lines 44-45 of Kawamura).

Allowable Subject Matter

8. Claims 31 and 37-40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

9. Applicant's arguments with respect to claims 1-7, 10-18, 20-24, 26, 28-40 and 45-51 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Brandt teaches an ordinary lip seal device that is similar to applicants' device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vishal Patel whose telephone number is (703) 308-8495. The examiner can normally be reached on Monday through Friday from 7:30 PM to 4:00 PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Shackelford, can be reached on (703) 308-2978.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-2168. Technology Center 3600 Customer Service is available at 703-308-1113. General Customer Service numbers are at 800-786-9199 or 703-308-9000. Fax Customer Service is available at 703-872-9325.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to: 703-872-9326, for formal communications for entry before Final action: or,

703-872-9327, for formal communications for entry after Final action.

Hand-delivered responses should be brought to Crystal Park Five, 2451 Crystal Drive, Arlington, Virginia, Seventh Floor (Receptionist suite adjacent to the elevator lobby).

VP March 11, 2005

Patent Examiner
Tech. Center 3600